

$$\begin{array}{r} 30 \\ 21 \\ 13 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 6-13-04 \\ 5-27-12 \end{array}$$

$$\begin{array}{r} 45-02 \\ 47-18 \text{ } \checkmark - \\ \hline 1-26-0- \\ 1-12 \text{ } \checkmark - \end{array}$$

$$\begin{array}{r} 22 \overline{) 1400} \cdot 64 \\ 132 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 6-13-04 \\ 45-02 \\ \hline 5-27-12 \end{array}$$

$$\begin{array}{r} 22 \\ 26 \\ \hline 132 \\ 44 \\ \hline 572 \end{array}$$

6 2.6

$$\begin{array}{r} 6-13-04 \\ 47-30 \\ \hline 5-20-34 \\ 12 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 46,32,5- \\ 572 \\ \hline 47,29,7 \end{array}$$

$$\begin{array}{r} 5-27-12 \\ 5-24-503 \\ \hline 2,21,7 \end{array}$$

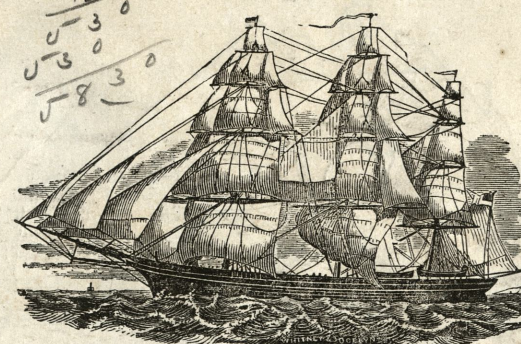
LOG BOOK

VOYAGES OF THE

$$\begin{array}{r} 12-19-49 \\ 1,12 \\ \hline 12-21-01 \\ 401,54 \\ \hline 7-19-04 \end{array}$$

$$\begin{array}{r} 46,34,5- \\ 1,12 \\ \hline 47,46,5- \\ 58,3 \\ \hline 48,04,8 \end{array}$$

COMMANDED BY

$$\begin{array}{r} 22 \\ 26,5 \\ \hline 530 \\ 5830 \\ \hline 1,26,5- \\ 1,12 \\ \hline 14,5-65- \\ 132 \\ \hline 130 \\ 110 \end{array}$$


$$\begin{array}{r} 6-13-04 \\ 48,048 \\ \hline 5,24,592 \end{array}$$

$$\begin{array}{r} 47,46,5- \\ 57,2 \\ \hline 48,43-7 \end{array}$$

47 46 5-

WHITON, BROTHER & CO.,

MANUFACTURERS OF CORDAGE,

IMPORTERS OF AND DEALERS IN

Anchors, Chains, Cotton Duck, &c., &c.,

NOS. 31 & 33 COMMERCIAL STREET,

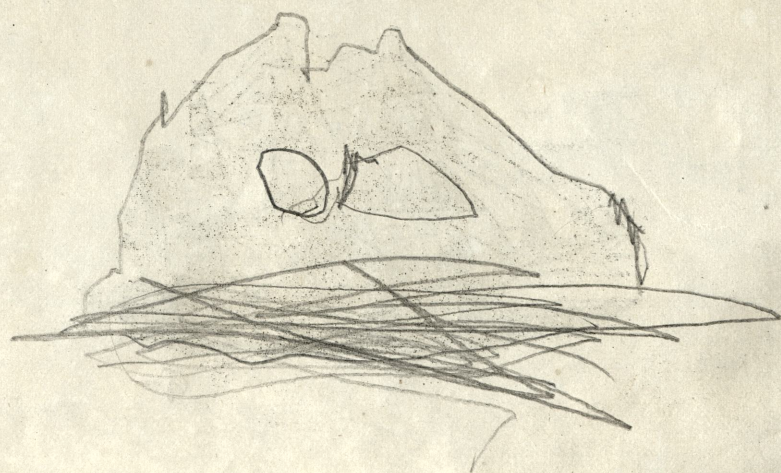
(OPPOSITE EAST END QUINCY MARKET.)

BOSTON.

BOOK

VOYAGES OF THE

COMMANDED BY



WHITON, BROTHER & CO.

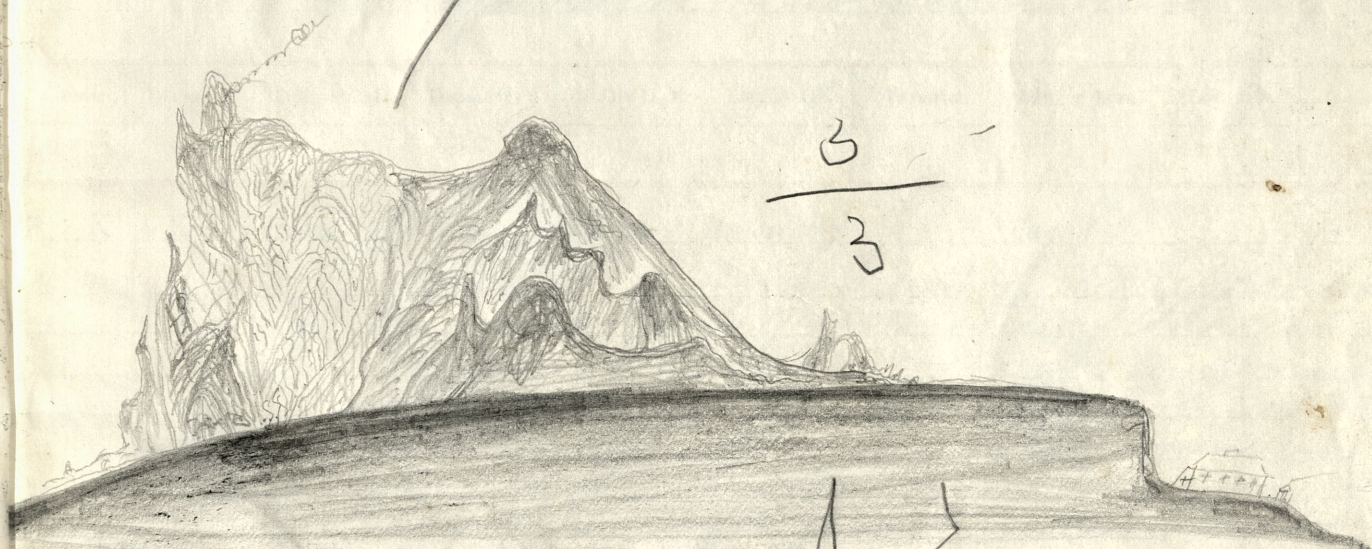
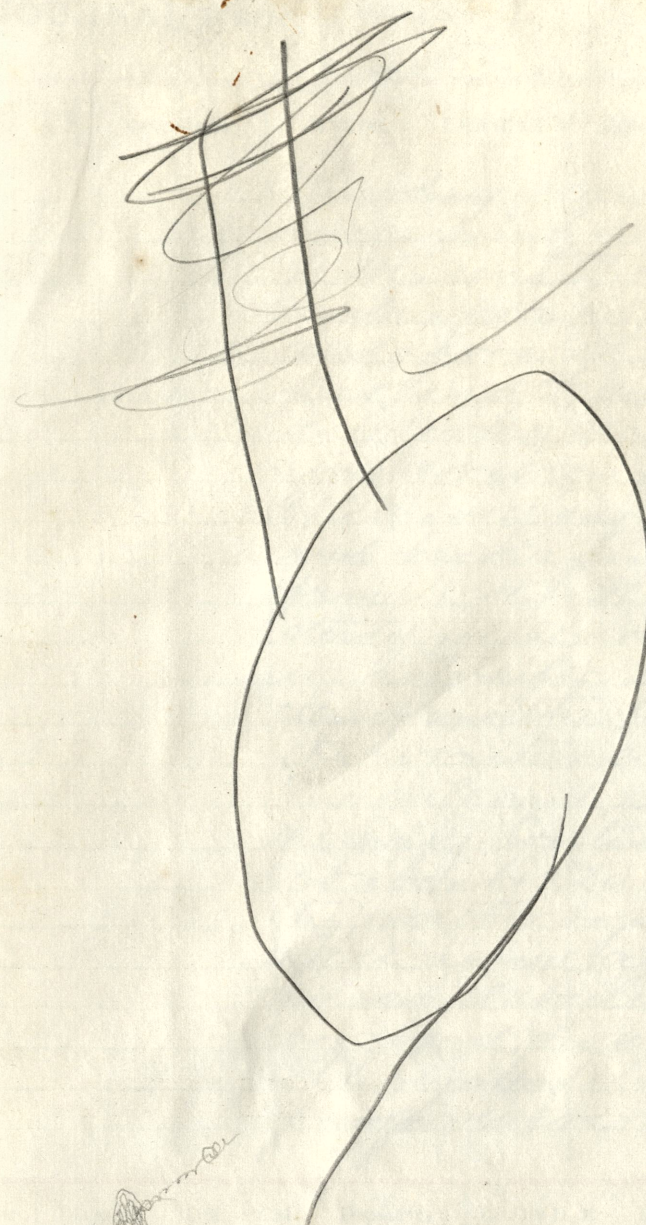
MANUFACTURERS OF CORRUGATED

IRON AND STEEL

NO. 21 & 23 COMMERCIAL STREET

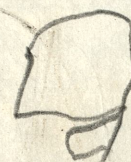
BOSTON

BOSTON



6
3

1
2 5 3



San Francisco Liverpool.

H.

K.

 $\frac{1}{2}$ K.

COURSES,

WINDS,

LEEWAY

Remarks

Sat. 26 day of May

1853

1

2

3

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5

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This day began with a fresh and rapidly increasing gale. Shortened sail during P. M. until at four o'clock we were under main lower topsail, main spencer and fore staysail. Extra lashings were put on all sails and every movable thing on decks securely lashed as a storm was foreseen. Wind was unsteady during P. M. veering several times from N. E. to S. and back again. Bad cross sea running from N. E. to S. - 2 A. M. wind, after being steady for several hours, came out to the south in a terrific squall. Blew away the fore staysail clean from the bolt rope. After the squall we, floored the weather side of the main lower topsail. The gale and particularly the sea increased rapidly. Continually shipping seas on decks. At about 5.20 A. M. we shipped a terrible sea on the weather or port side, covering the ship fore and aft. Carried away about 7 feet of the rail, smashed bulwarks, stove two boats on the forward house carried away the rail on the break of the poop, the fly wheels of the pumps were bent and injured by a piece

Course.

Distance.

Diff. of Lat.

Departure.

Lat. by D. R.

Lat. by Ob.

Variation.

Diff. of Lon.

Lon. in.

Lon. by Ob.

H.

K.

 $\frac{1}{2}$ K.

COURSES,

WINDS,

LEEWAY,

Remarks

day of

187

1

2

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4

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12

1

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3

4

5

6

7

8

9

10

11

12

cross sea.

Barometer 28.80

Course.

Distance.

Diff. of Lat.

Departure.

Lat. by D. R.

Lat. by Ob.

Variation.

Diff. of Lon.

Lon. in.

Lon. by Ob.

39.13

no obs.

143.30

South lat.

West lon.

San Francisco Liverpool.

San Francisco Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks
1	2		West.	S. by N. 6 pts.		Sun. 27 day of May 1883. 187
2	2					Heavy southerly gale all day. Sea not quite so bad as yesterday but still running wickedly from N. W. S. W. and S. E. All hands on deck all day clearing up the wreck, pumping ship &c. The ship makes no extra water but we pump out a lot of water. The pumps frequently choking and giving great trouble to keep clear. Ship has a heavy list to starboard. Peter Schaefer left no effects not even a scrap of paper to tell where he was born. He claimed to belong to Bremen and had been in San Francisco for six years. The other injured ones doing well. Gale moderating somewhat during A. M. and sea getting more regular.
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by
N. W.	48	45.	16.2	38.28	no obs.	40 E.	21.	43.51	Lon. by
				South lat				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N. N. E.	S. E.		Tues 29 day of May 1883. 187
2	5					Fair weather and a moderate wind.
3	5		4321	9543	6780	Main decks continually flooded with water owing to the heavy rain and broken bulwarks.
4	5					Carpenter fitted a hatch for the after hatch which until now has been securely covered with planks and sails.
5	5					Grain still coming from the pumps.
6	5					
7	5					
8	5					
9	5					
10	6					
11	6					
12	6					
1	6		N. E. by N. 3/4 E.			During A. M. sent men down into the upper tween decks and found that the cargo had all started to starboard. Worked all the forenoon trimming to port.
2	6					
3	6					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. N. E. 1/2 E.	126.	111.	59.4	34.28	34.28	2° E.	73.	42.13	Lon. by Ob.
				South lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. E. by N.	S.		Wed 30 day of May 1883. 187
2	4					Moderate winds and fair weather all day. Carpenter repairing damages to woodwork and crew trimming cargo.
3	4			S. W.		
4	4					
5	4					
6	4			N. W.		
7	5					
8	5					
9	5		N. E.	N. N. W.		able to go on deck with a crutch myself. Chas. Herbert resumed duty. Simon Lewis improving very slowly if any at all.
10	5					
11	5					
12	5					
1	5					Thomas Ayres and Robert Doctor a bore finger a piece caused by filthy mess and an evidently bad state of the blood as each acknowledges to having had syphilis previously. All hands are allowed fresh water and ordered to wash.
2	5					Grain still comes from the pumps. Got the ship righted a good deal.
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. E. 1/2 N.	113	87.	71.7	33.01	33.01		87	40.46	Lon. by Ob.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	7		N.	S.		Thurs. 28 day of May 1883
2	7					at noon set foresail and fore lower topsail and squared away. The sea still heavy and shipping a good deal of water on decks.
3	7					
4	7					
5	7					
6	6					All hands busy on decks all day getting things put to rights.
7	6					
8	6					
9	6					
10	5					8 P. M. set main upper topsail and mizzen lower.
11	5					
12	5					
1	5		N. by E.			
2	5					Day ends fair. Top gallant sails set.
3	5					Pumping out a great deal of water.
4	5					
5	5		S. S. E.			
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by
N. 9° E.	131.	129	20.	36.19	36.19	3° E.	25.	43.26	Lon.
				South lat.				West lon.	

JOURNAL from San Francisco towards Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	7		N. by E $\frac{1}{2}$ E	N. by N.		Fair weather and a good breeze all day. All sail set.
2	7					Pumps not throwing out so much grain.
3	7					Sail making and work aloft on rigging
4	7					
5	7					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

84 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E $\frac{1}{2}$ E	149.	131.4	70.2	30° 50'	30° 50'	none	83.	99° 23'	West. Lat.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N. by E $\frac{1}{2}$ E	N. by N.		Friday 1 day of June 1883.
2	5					Light winds and fine weather all day.
3	5					Simon Levison improving slowly.
4	4			West.		Pumps give but very little grain today.
5	3					
6	3					
7	3					
8	3			S. by N.		
9	3					
10	3					
11	3					
12	3					
1	3					
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	2					
12	2					

85 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E $\frac{1}{2}$ E	75	66.	33.4	29° 44'	29° 44'	none	41.	38° 42'	South Lat.

JOURNAL from San Francisco towards Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	2		N. by E $\frac{1}{2}$ E	N. by N.		Saturday 2 day of June 1883.
2	2					Light winds and fine clear weather all day.
3	2					Reeling light weather sails.
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					
2	5					
3	5					
4	5					
5	5					Pumps and lights attended.
6	5					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Pumps and lights attended.

86 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E $\frac{1}{2}$ E	86	66.5	54.6	28° 38'	28° 38'	2° W.	63.	38° 20'	South Lat.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		N. by E $\frac{1}{2}$ E	N. by N.		Sunday 3 day of June 1883.
2	6					Good breeze and pleasant weather all day.
3	6					Repairing sails and work on rigging
4	6					
5	6					
6	6					
7	8					
8	8					
9	8					
10	8					
11	8					
12	8					
1	8					
2	8					
3	7			W. by N.		
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Pumps and lights attended.

87 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E $\frac{1}{2}$ E	161	134.	89.4	26° 24'	26° 24'	2° West.	100.	36° 40'	South Lat.

San Francisco Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks	Mon. 4 day of June 1883
1	5		E.N.E.	N.	1/4	Fair weather and a fresh westerly wind.	
2	5					During A.M. squally	
3	5					furled all light sails	
4	5					Saw two barks bound to the southward.	
5	5					Pumps and lights attended	
6	5						
7	5						
8	5						
9	5						
10	5						
11	5						
12	6						
1	6						
2	6						
3	6						
4	6						
5	6						
6	6						
7	6						
8	6						
9	6						
10	6						
11	6						
12	6						

88 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E.N.E.	133.	51.	122.9	23° 33'	23° 33'	4° W.	137.	34.46	South lat.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	Tues 5 day of June 1883
1	7		E.N.E.	N.	1/2 pt.	Fine weather and a fresh breeze all day. All sail set.	
2	7						
3	7						
4	7						
5	7						
6	8						
7	8						
8	8						
9	8						
10	8						
11	8						
12	8						
1	8						
2	8						
3	8						
4	8						
5	8						
6	8						
7	7						
8	7						
9	7						
10	7						
11	7						
12	7						

Pumps and lights attended
89 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.E. by E.	146.	73.	139.2	24° 15'	24° 10'	3° N.	171.	34.25	South lat.

San Francisco Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	Wed. 6 day of June 1883
1	6		N.E. by N.	N.W. by N.		Pleasant weather during first part of day.	
2	6					Middle part squally. Hauled all light sails.	
3	6					Saw two ships and a bark steering for Cape of Good Hope.	
4	6						
5	6						
6	6						
7	6						
8	6						
9	6						
10	6						
11	6						
12	6						
1	6						
2	6						
3	6						
4	5						
5	5						
6	5						
7	5						
8	5						
9	5						
10	5						
11	5						
12	5						

90 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. E.	133.	123.	50.9	22.07	22° 0'	7° West.	55.	31.00	South lat.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	Thurs. 7 day of June 1883
1	5		N.W. E.	N.		Fair weather and moderate wind all day. All sail set.	
2	5						
3	5						
4	5						
5	5						
6	6						
7	6						
8	6						
9	6						
10	6						
11	6						
12	6						
1	6						
2	6						
3	6						
4	6						
5	6						
6	6						
7	6						
8	6						
9	6						
10	6						
11	6						
12	6						

Pumps and lights attended

91 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. by E.	139.	136.	27.1	19° 51'	19° 51'	8° W.	30.	30.30	South lat.

JOURNAL from

towards

San Francisco Liverpool
Friday 8 day of June 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		N. by E. S.			Squally weather and a moderate breeze during P.M.
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6			S. S. E.		
10	7					
11	7					
12	7					
1	7					9 A.M. spoke an Italian Bark showing N. B. D. S. 16 days from Buenos Ayres and bound to Antwerp. Albroeck.
2	7					
3	7					
4	7					
5	7					
6	7			E		Pumps and lights attended.
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					92 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by
N.	159.	159.	—	17° 12'	17° 12'	10° W.	—	30° 30'	South lat.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	7		N. by E. E.	E.	1/2	Sat 9 day of May 1883
2	7					Squally trades during A.M.
3	7					
4	7					
5	7					Saw several vessels bound to the Southward.
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					
1	7					
2	7					
3	7					
4	7					Days end fine with moderate wind. Pumps and lights attended.
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					93 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by
N. by E.	160	159.	15.7	14° 33'	14° 33'	10° W.	16	30° 14'	South lat.

JOURNAL from

towards

San Francisco Liverpool
Sun. 10 day of June 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		N. by E. E.	E.		Good trades and fair weather all day.
2	6					Several barks and a ship passed to the Southward.
3	6					
4	6					
5	6					
6	6					
7	6					Pumps and lights attended.
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	7					
11	7					
12	7					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.	147	147.	—	12° 04'	12° 04'	12° W.	—	30° 14'	South lat.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	8		N. by E. E. S. E.	E. S. E.		Sun. 11 day of June. 1883
2	8					Fresh trades all day. Squally during the middle part.
3	8					
4	8					
5	9					Passed a bark bound with us.
6	9					
7	9					
8	9					Tarring down and painting iron work aloft.
9	9					
10	9					
11	9					
12	9					
1	9					
2	9					
3	9					
4	9					
5	9					Pumps and lights attended.
6	9					
7	9					
8	9					
9	9					
10	9					
11	9					
12	9					95 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 8° E.	214	211.	30	8° 33'	8° 33'	14° W.	31	29° 43'	South lat.

JOURNAL from

towards

San Francisco Liverpool.
 June 12 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	9							
2	9							
3	9							
4	9							
5	9							
6	9							
7	9							
8	9							
9	8							
10	8							
11	8							
12	8							
1	8							
2	8							
3	8							
4	8							
5	8							
6	8							
7	8							
8	8							
9	8							
10	8							
11	8							
12	8							

Fine weather and fresh breeze all day.
 Crew occupied as yesterday

Pumps and lights attended

96 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 12° E.	200.	195.	42.	5° 18'	5° 18'	14° W	43.	29° 00'	
				South lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	8							
2	8							
3	8							
4	8							
5	8							
6	8							
7	9							
8	9							
9	9							
10	9							
11	9							
12	9							
1	9							
2	9							
3	9							
4	9							
5	9							
6	9							
7	9							
8	9							
9	9							
10	9							
11	9							
12	9							

Fresh trades and fair weather all day
 Frenchie amputated a part of the third finger of his left hand on account of the pain it was giving him.
 at about 4.30 p.m. Mrs. Porter the Captain's wife, was safely delivered of a fine healthy girl baby. The little stranger was cared for and the mother made comfortable by the Captain.

97 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E. 44° E.	210	204	51	1° 54'	1° 54'	14° W.	51	28° 09'	
				South lat.				West lon.	

JOURNAL from

towards

San Francisco Liverpool.
 June 14 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	8							
2	8							
3	7							
4	7							
5	7							
6	7							
7	7							
8	7							
9	7							
10	7							
11	7							
12	7							
1	7							
2	7							
3	7							
4	7							
5	7							
6	7							
7	7							
8	7							
9	7							
10	6							
11	6							
12	6							

Moderate trades with a few squalls of rain during the night
 Finished tarring the rigging
 Two men constantly employed overhauling sails.

Simon Levison's leg improves very slowly.

Pumps and lights attended

98 Days from San Francisco.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E. 44° E.	167	162.	40.6	00° 48'	00° 48'	14° W.	41	27° 28'	
				North lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	5							
2	5							
3	5							
4	5							
5	5							
6	5							
7	5							
8	5							
9	5							
10	5							
11	5							
12	5							
1	5							
2	5							
3	5							
4	5							
5	5							
6	5							
7	5							
8	5							
9	5							
10	5							
11	5							
12	5							

Fair weather and moderate wind during P.M.

Thomas Ayres finger gives evidences of modification

Latter part squally and raining.
 Pumps and lights attended.

99 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E. 44° E.	120.	116.4	29.2	2° 44'	no obs	14.	26.29	26° 59'	
				North lat.				West lon.	

JOURNAL from

towards

San Francisco Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N.E. by N. W.	S.S.W.		Fair weather and a light wind all day
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	5			S.E.		
2	5					
3	5					
4	5					
5	5					Pumps and lights attended.
6	5					
7	5			E.		
8	5					
9	5					
10	5					
11	5					
12	4					100 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N by E 4 E.	119	115	28.9	4° 39'	4° 41'	14° W.	29.	26° 30'	Lon. by Ob.
				North lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	3		N.N.E.	E.		Light wind and fair weather until 9 P.M. during the remainder of the day had baffling airs and heavy rains caught about 2000 gallons of water.
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	2					
12	2					
1	1					
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 3/4 E.	46.	45.	7	5° 26'	5° 26'	14° W.	7.	26° 23'	Lon. by Ob.
				North lat.				West lon.	

JOURNAL from

towards

San Francisco Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	2		N.N.E.			Baffling airs and heavy rains during P.M.
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	3					
9	3					
10	3					
11	3					
12	3					
1	3			S.E.		
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 3/4 E	67	66	9.8	6° 32'	6° 32'	14° W.	10	26° 13'	Lon. by Ob.
				North lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N.N.W.	N.E.		Light airs from the N.E. unsettled weather.
2	4					
3	3					
4	3					
5	3					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	1					
2	1					
3	1					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. 3/4 N.	37	42.	3.1	7° 13'	7° 13'	14° W.	31.	26° 45'	Lon. by Ob.
				North lat.				West lon.	

JOURNAL from *San Francisco* towards *Liverpool.*

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks
1	4		N.W.	N.W.E.		Light wind and squally weather during P.M.
2	4					
3	4					
4	4					Letter part fair with light wind. Pumps and lights attended.
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	5					
12	5					
1	5					
2	5					
3	5					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

104 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. by N. 4 N.	101	31.	86.5	8° 04'	8° 04'	14° W.	87.	28° 12'	
				North lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N.W.	N.W.E.		Fair weather and moderate trades all day
2	4					
3	4					
4	4					
5	4					Painting masts and holys stoning decks.
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	4					
3	4					Pumps and lights attended.
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	3					
11	3					
12	3					

Pumps and lights attended.

105 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. by N. 4 N.	93.	43.	78.9	8° 47'	8° 47'	14° W.	80.	29° 32'	
				North lat.				West lon.	

JOURNAL from *San Francisco* towards *Liverpool.*

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N.W.	N.W.E.		Fine weather and moderate trades the entire day.
2	4					All sail set. Passed a bark bound with us.
3	4					
4	4					
5	4					
6	4					
7	4					
8	5					
9	5					
10	5					
11	5					
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

N.W. by N. 4 N.E. by N.

Pumps and lights attended

106 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 50° W.	111	71.	86.7	9° 38'	9° 38'	14° W.	88	31° 00'	
				North lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N.W. by N. 4 N.E. by N.	N.W.E.		Light wind and fine weather all day.
2	5					
3	5					
4	5					Painting in poop and holys stoning main decks.
5	5					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Pumps and lights attended

107 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. by N.	101	84	76.1	11° 22'	11° 22'	14° W.	88	31° 58'	
				North lat.					

JOURNAL from

towards

San Francisco towards Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		T.	E. N. E.		Moderate wind and fine weather all day.
2	5					
3	5					
4	5					
5	6					Pumps and lights attended
6	6					
7	6					
8	6					
9	6					108 Days out.
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by W. 47°.	170	136	34	13° 38'	13° 38'	14° 00'	36.	32° 34'	
				North lat.		14° 00'		West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	7		N. by W.	N. E. by E.		Truck trades and fair weather all day.
2	7					
3	7					
4	7					
5	7					Painting poop and poly stoning maindeck.
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					
1	7					
2	7					
3	8					
4	8					
5	8					Pumps and lights attended.
6	8					
7	7					
8	8					
9	8					
10	8					
11	8					
12	8					109 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. N. W. 44°.	178	161.	76.1	16° 19'	16° 19'	14° 00'	79.	33° 53'	
				North lat.				West lon.	

JOURNAL from

towards

San Francisco towards Liverpool.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	8		N. by W.	N. E. by E.		Strong trades and squally weather all day.
2	8					
3	8					
4	8					
5	8					
6	8					
7	8					
8	8					
9	9					
10	9					
11	9					
12	9					
1	9					
2	9					
3	9					
4	9					Low full rigged brig before the wind.
5	9					Pumps and lights attended.
6	9					
7	9					
8	9					
9	9					
10	9					110 Days out.
11	9					
12	9					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. N. W. 44°.	200	180	80.3	19° 19'	19° 19'	14° 00'	90.	36° 23'	
				North lat.				West lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	9		N. by W.	N. E. by E.		Strong trades and frequent squalls during P. M. Handed all light sails.
2	9					
3	9					
4	9					
5	9					
6	9					Fine weather during A. M. all sail set. Painting P.
7	9					
8	9					
9	9					
10	9					
11	9					
12	9					
1	9					
2	8					
3	8					
4	8					
5	8					
6	8					
7	8					
8	8					
9	8					
10	8					
11	8					
12	8					Pumps and lights attended.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. N. W. 44°.	197	178	84.2	22° 17'	22° 17'	14° 00'	89.	36° 52'	
				North lat.				West lon.	

JOURNAL from

towards

San Francisco, Liverpool

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	8		N.W. by N.	N.E. by E.		Fresh trades and fair weather all day.
2	8					
3	8					
4	8					
5	8					
6	8					
7	8					
8	8					
9	8					
10	8					
11	7					
12	7					
1	7					
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

Pumps and lights attended
112 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. 1/4 N.	178	119	136.9	24.16	24.16	14° W.	194.	40.00	West lon.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		N.W. N.	N.E.		Fine clear weather and a moderate wind all day.
2	6					
3	6					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Pumps and lights attended
113 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. 3/4 N.	123.	97.	79.3	20.00	20.05	14° W.	81	41.27	North lat. West lon.

JOURNAL from

towards

San Francisco, Liverpool

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. by W.	N.E. by E.		Light winds and fine weather the entire day.
2	4					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					
1	2					
2	2					
3	2					
4	2					
5	1					
6	1					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Pumps and lights attended.
114 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. 1/4 N.	60.	54	25.7	26.49	26.49	14° W.	29.	41.30	North lat. West lon.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	2		N.W. N.	N.E.		Light winds and pleasant weather all day.
2	2					
3	2					
4	3					
5	3					
6	3					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	4					
3	3		N.W.	N.W.E.		
4	3					
5	0					
6	3		N.E.	N.W.		
7	1					
8	2					
9	2					
10	2					
11	2					
12	2					

Pumps attended.
115 Days.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.W. 1/4 N.	62.	54.	30.	27.35	27.35	16° W.	35.	42.30	North lat.

JOURNAL from *San Francisco* towards *Liverpool*

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		E. N. E.	N.		Mon. 2 day of July 1883 187
2	4					Light winds
3	4					Squally weather during
4	4		N. N. W.	N. E.		the middle part.
5	4					
6	4					
7	4					
8	5		N. by E.			
9	5		N. W. E.	E.		
10	5					
11	5					
12	5					
1	5					opened beef.
2	5					
3	5					
4	5					
5	5					Day ends fair with moderate
6	5					wind.
7	5					Pumps and lights attended
8	4					
9	4					
10	4					
11	4					
12	4					116 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.	108.	108.		29° 23'	29° 23'	16° W.		42° 35'	
				North lat.				West long.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. by E.	E.		Tues. 3 day of July 1883 187
2	4					Light wind and fair weather
3	4					the whole day.
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					Pumps and lights attended
9	3					
10	3					
11	3					
12	3					117 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.	80.	80.		30° 48'	30° 48'	16° W.		42° 50'	
				North lat.				West long.	

JOURNAL from *San Francisco* towards *Liverpool*

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. by E.	E. by N.		Tues. 4 day of July 1883 187
2	4					Moderate wind. Squally
3	4					during the middle part, but
4	4					the day ends with fine
5	4					weather
6	4					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					Pumps and lights attended.
9	5					
10	5					
11	4					118 Days out.
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by E.	112.	111.	11	32° 39'	32° 39'	16° W.	14.	42° 44'	
				North lat.				West long.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. N. E.	East.		Thurs 5 day of July 1883 187
2	4					Moderate Easterly wind and
3	4					fine clear weather all day.
4	4					Finished painting ship.
5	5					
6	5					
7	5					
8	5					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	5					
6	5					
7	5					
8	5					
9	4					Pumps and lights attended.
10	3					
11	3					
12	2					119 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.	116.	116.		34° 35'	34° 35'	18° W.		42° 44'	
				North lat.				West long.	

JOURNAL from

towards

San Francisco *Liverpool*

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks	day of	187
1	2		N. E.				Friday	July 1883
2	1		N. N. E.			Fine weather and baffling		
3	1					airs during P. M.		
4	1							
5	1							
6	1					Six topgallant yard ships in		
7	1					company during A. M.		
8	1							
9	1							
10	1							
11	2		N. E. E.					
12	2							
1	3							
2	3		E. N. E. N.					
3	3							
4	4							
5	4					Light westerly wind during A. M.		
6	4							
7	4							
8	4		N. E. by E.			Pumps and lights attended		
9	4		N. N. E.					
10	5							
11	5							
12	5					120 Days out		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. E. by E. 146	50	48	12	35° 23'	35° 23'	20° W.	14'	42° 30'	
North lat.									

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	8		N. E. by E.	N. W.			Sat. 7	July 1883
2	8					Strong N. W. wind during		
3	8					P. M.		
4	8							
5	8							
6	9							
7	9							
8	10					Blowing fresh during A. M.		
9	10					All light sails and the		
10	10					topgallant sails furled.		
11	10					Moderating at close of day.		
12	10							
1	10							
2	10							
3	10							
4	10							
5	9							
6	9							
7	9					Pumps and lights attended		
8	9							
9	8							
10	8							
11	8							
12	8					121 Days out		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. E. 3/4 N.	216	173	128.3	38° 16'	38° 16'	22° W.	163	40° 07'	
North lat.									

JOURNAL from

towards

San Francisco *Liverpool*

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	8		N. E. by E.	N. W.			Sun 8	July 1883
2	8					Good breeze and cloudy		
3	6					weather during P. M.		
4	6							
5	6					Later part hazy. All sail		
6	6					set		
7	6							
8	6							
9	6							
10	6							
11	6							
12	6							
1	6							
2	6							
3	6							
4	6							
5	6							
6	6		E. by N.			Pumps and lights attended		
7	6							
8	6							
9	5							
10	6							
11	5							
12	6					122 Days out		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	148	123	82.2	40° 14'	40° 14'	25° W.	106	38° 19'	
North lat.									

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	6		E. by N.	N. W.			Mon 9	July 1883
2	6					Hazy weather and a moderate		
3	6					wind the entire day.		
4	6							
5	6							
6	5			N.				
7	5							
8	5							
9	5							
10	5							
11	5							
12	5							
1	5							
2	5							
3	5							
4	5							
5	5							
6	5							
7	5							
8	5					Pumps and lights attended		
9	5							
10	5							
11	5							
12	5					123 Days out		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. E. by E.	125	69	103.9	41° 28'	41° 28'	16° W.	137	36° 02'	

JOURNAL from

towards

San Francisco Liverpool.
Tues. 10 day of July 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		E.	N. N. W.		Moderate wind and cloudy misty weather the entire day. Several vessels passed to the westward and we went by a couple of bark bound south.
2	6					
3	7					
4	7					
5	7					
6	7			N. W.		
7	7					
8	7					
9	7					
10	6			N.		
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	5					
7	5					Pumps and lights attended
8	5					
9	5					
10	5					
11	5					
12	5					124 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. E. by E. $\frac{1}{2}$ E.	144.	67.9	127.	42° 35'	No obs.	28° W	171	33° 11'	West Lon.
				N. lat.				West Lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		E.	N.		Tues. 11 day of July 1883. 18
2	4					
3	4					
4	4					Rainy nasty weather during the first and middle parts of the day. Top gallant sails furled.
5	3					
6	2		S. E.	E. N. E.		
7	2		S.	E. by S.		
8	3		N. E. by N.		1 1/2	8 P. M. wore ship.
9	4					
10	4					
11	4					
12	4					
1	4					Clearing weather during latter part. Moderate wind
2	4					8 a. M. wore ship
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4		E. S. E.		1/2	Pumps and lights attended
11	5					
12	5					125 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E 24° N.	65.	26	59.2	43° 01'	43° 02'	28° W.	81.	31° 50'	West Lon.

JOURNAL from

towards

San Francisco Liverpool.
Thurs. 12 day of July 1883 ¹⁸⁷

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		E. S. E.	N. E.	1/2	Good breeze and fair weather all day.
2	6					
3	6					
4	6					
5	6					all sail set.
6	6					
7	6					
8	6					
9	6					
10	6					
11	6		E.	N. by E.		
12	7					
1	7					
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					Pumps and lights attended
8	7					
9	7					
10	7					
11	7					126 Days out.
12	7					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E by N. $\frac{1}{4}$ N.	157.	38	152.3	43° 40'	43° 40'	30° W.	208	28° 22'	West Lon.
				North Lat.				West Lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		East	North		Friday 13 day of July 1883 187
2	6					
3	6					Partly cloudy weather and a moderate wind all day
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6		E by S.	N. E. by N.		
6	6					
7	6					
8	6					
9	6					Pumps and lights attended
10	6					
11	6					
12	6					127 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E 17° N.	141	44.5	137	44° 25'	44° 25'	30° W.	190.	28° 12'	West
				North Lat.				West	

JOURNAL from

towards

San Francisco Liverpool
 Sat 14 day of July 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		E.N.E.	N.E.		Light wind and fair weather the whole day.
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4		S.E. by E.			
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Pumps and lights attended

128 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E 2° S.	96	4	96	44° 21'	44° 21'	28° W.	134	23° 01'	
				North Lat.		West.			

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. E. by E.			Light wind and pleasant weather during P.M.
2	4					
3	3					
4	3		N. by W. N.E.			Calm during A.M.
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	1					
12	0					
1	0					
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					

Opened Beef and Pork.

Pumps and lights attended

129 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by W. 24° W.	27.	15.	21.6	44° 36'	44° 36'	28° W.	30.	23° 31'	
				North Lat.		West Lon.			

JOURNAL from

towards

San Francisco Liverpool
 Mon 16 day of July 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	3		E by N. S.			Fine weather and a moderate wind all day.
2	4					
3	4					
4	4					
5	4					
6	5					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	7					
12	7					

Pumps and lights attended

130 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E 33° S.	134.	70.	113.8	46° 46'	46° 46'	28° W.	161.	25° 50'	
				North Lat.		West Lon.			

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		E by N. S.			Moderate wind and pleasant weather the entire day.
2	6					
3	6					
4	5			S. W.		
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	4			N. S. W.		
2	4					
3	4					
4	4					
5	4					
6	4					
7	5					
8	5					
9	5					
10	5					
11	6			S. S. W.		
12	6					

Pumps and lights attended

131 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E 40° N.	110.	74.	87.0	47° 00'	47° 00'	28° W.	126	18° 44'	

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
E 21° N.	125	49	115.1	49° 02'	49° 02'	260.	177.	13° 10'	
North Star									

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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JOURNAL from *San Francisco* towards *Liverpool.*

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1						Strong N.W. gale rose during A.M. at 6.30 A.M. parted our hawser and was obliged to take one from the tow boat. The gale moderated during the P.M. at midnight we passed the N.W. Lightship.	Sunday 22 July 1883.	
2								
3								
4								
5								
6								
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8								
9								
10								
11								
12								
1						1 A.M. came to anchor off Canada Dock 3 A.M. started to rig in boom. 8 A.M. hove up our anchor and got fast to a tow boat. 1 P.M. entered the Birkenhead docks and made fast in the basin. The whole crew left the ship.	Monday July 23.	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1						Pleasant weather and West wind 11 A.M. hauled into Morpeth Dock and made fast.	Tuesday July 24.	
2								
3								
4								
5								
6								
7								
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9								
10								
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12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1								
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East Float. Birkenhead.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1						Wed Aug 15	Strong N.W. gale. Rain.	
2						Discharged no cargo.		
3								
4						Thurs 16.	Fine weather. Discharging	
5						cargo. Painting ship in yards		
6								
7						Friday 17.	Fair weather and N. wind	
8						discharged no cargo.		
9						Sat. 18.	Pleasant weather Dis-	
10						charging cargo.		
11						Sun 19.	North wind and pleasant	
12						weather.		
1						Mon 20.	Kind N.W. cloudy. Dis-	
2						charging wheat.		
3						Tues. 21.	North wind. Discharging	
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1						Wed Aug 22.	S.E. wind and fine weather.	
2						Discharging cargo.		
3						Thurs. 23.	Fair weather and S.E. wind	
4						Discharging wheat.		
5						Friday 24.	Pleasant weather. N. wind	
6						Discharging cargo. Received 1000 sax		
7						salt.		
8						Sat. 25.	Cloudy weather and N.W. wind	
9						Discharging wheat. Got 950 sax salt		
10						Sun 26.	Fair weather and N.W. wind.	
11						Mon 27.	Pleasant weather N.W. wind.	
12						Received 500 sax salt.		
1						Tues. 28.	Strong N.W. wind and cloudy weather	
2						Received 2050 sax salt.		
3						Got stores on board. Got new		
4						copper for ship.		
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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East Float. Birkenhead.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1						Wed 29. Aug.	Received 1900 sax salt.	
2						Pleasant weather and N.W. wind.		
3								
4						Thurs 30.	Finished taking salt. A total	
5						of 905 tons on board. Wind W.		
6								
7						Friday 31.	5 a.m. unmoved ship and	
8						hauled into the Alfred Basin		
9						Mr. Olsen second officer was taken		
10						by the Police. Steward and Cook		
11						deserted the ship. 10 P.M. hauled		
12						into the stream and let go the		
1						starboard anchor. Crew came		
2						on board. Also new cook and steward.		
3						Wind N.E. Pleasant weather.		
4								
5						Sat. Sept. 1.	Kind E. rain and blowing.	
6						Making ready for sea.		
7						opened deep ground flume.		
8						Sun Sept 2.	Kind backed gradually from S.E.	
9						to N. rainy weather. Fresh gale.		
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1						Mon. Sept 3.	Heavy gale from West. Rainy.	
2								
3						Tues Sept. 4.	8 a.m. tow boat came along	
4						side. Channel pilot came on		
5						board. Hove up our anchor		
6						and at noon passed the		
7						large light ship. Day continued		
8						12 hours and ended at noon.		
9								
10						Wed Sept 5.	Midnight passed Pt Linas	
11						2.30 a.m. let go the towboat		
12						off Holy head. Let all sail		
1						with a fresh North wind		
2						at noon "Tuskar" bore S.W.		
3						dist 8 miles. Clear weather		
4						and light N.E. wind.		
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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JOURNAL from

Liverpool

towards

Sandy Hook.

JOURNAL from

Liverpool

towards

Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks
1						Thurs day of Sept 6 1883
2						Had light airs from the Eastward during P.M.
3						Channel Pilot left us at 3.30 P.M. at Tuscar.
4						Y.P.M. got a breeze from N.W.
5						Midnight. made Bishop's light.
6						S.E. 18 miles distant. 12.30 made
7						Smalls light. S.S.E. 17 miles.
8						Wind freshening. Furlled royals
9						topgallantsails and mainmast.
10						5 a.m. Bishop's bore E by N. 15
11						miles distant from which I take
12						departure. 6 a.m. wore ship to
1						N.W.
2						9 a.m. Tacked ship. wind
3						moderating set topgallantsails
4						Day ends clear with a fresh
5						breeze from N.W.
6	6		S.	N.W.	2 pts	
7	6		N.W.			
8	6					
9	5					
10	5		N.W.	N.W.	1 pt.	
11	7					
12	7					2 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				51.24	51.24	25°W.		6°10' west	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks
1	4		S.W.	N.	1 1/2	Sat. 8 day of Sept 1883
2	4		111	111	111	Thick drizzly weather, light
3	4		111	111	111	wind and heavy weather
4	4		111	111	111	sea during first and
5	4		111	111	111	middle part of the day.
6	4		111	111	111	latter part fair weather
7	4		111	111	111	and light N.E. wind
8	3		111	111	111	
9	3		111	111	111	P.M. tacked ship
10	3		111	111	111	
11	3		111	111	111	5 a.m. Tacked ship.
12	3		111	111	111	
1	3		111	111	111	
2	3		111	111	111	
3	3		111	111	111	
4	3		111	111	111	
5	3		111	111	111	
6	3		111	111	111	Pumps and lights attended.
7	2		111	111	111	
8	2		111	111	111	
9	2		111	111	111	
10	2		111	111	111	
11	2		111	111	111	4 Days out.
12	2		111	111	111	

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
			10	26	49.18	49.18	26°W.	38	9.15

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	8		N.W.	N.W.	1 pt.	Friday 7 day of Sept 1883
2	8					Strong N.W. breeze all day.
3	8					Cloudy weather during
4	8					latter part.
5	8		3	302	2	
6	8					
7	8		7	7	7	7 7 7 7 7 7 7 7
8	7					
9	7					
10	7					
11	7					
12	7					
1	7					
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	6					
9	6					
10	6					
11	6					
12	6					

Took anchors in fore-castle.

Pumps and lights attended

3 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S.W.	170	141.3	74.4	49.03	no obs.	25°W.	147	8.37	west.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	3		N.	E	1 1/2 pt.	Sun. 9 day of Sept. 1883
2	3					Light winds and clear weather
3	3					the first half of the day.
4	3					Self sail set.
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					
1	3					
2	3					
3	4					
4	4					
5	6					
6	6					
7	6					
8	5					
9	4					
10	4					
11	4					
12	4					

Took anchors in fore-castle.

Pumps and lights attended.

5 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. S. W.	87.	33.3	80.4	49.45	no obs.	26°W.	123	11.18	west.

Liverpool

Sandy Hook

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,
1	7		N. by W.	S. W.	$\frac{1}{2}$
2	7		N.	N.	
3	7				
4	7				
5	7				
6	7				
7	8				
8	8				
9	8				
10	8				
11	8				
12	8				
1	8				
2	8				
3	8				
4	8				
5	8				
6	8				
7	8				
8	8				
9	8				
10	8				
11	8				
12	8				

Remarks Mon 10 day of Sept. 1883
 1 P. M. wind hauled to N. Tacked ship.
 During remainder of day had a strong N. wind and clear weather.
 Several ships and barks in company.

Pumps and lights attended.

6 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. S. W.	186.	72.	171.8	47°33'	47°33'	2° W.	2.56	15°34'	
North Lat.									

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	7		N. by N.	N.		Breeze moderated during P. M. Fine weather.
2	7					
3	7					
4	6					
5	6					
6	4			N. E.		
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	3			N. E.		
2	2					
3	2					
4	2					
5	2					
6	0					
7	0					
8	3					
9	4					
10	6					
11	6					
12	6					

Day ends clear with fresh S. W. breeze. Pumps and lights attended.

7 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by S. S.	97.	28.	92.8	47°05'	47°05'	2° W.	1.36	17°34'	
North Lat.									
West Lon.									

Liverpool

Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		N. W. by N.	S. W. by S.	$\frac{1}{2}$	Weather became thick and the wind freshened during P. M. Handed light sails.
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	5					
3	5					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

2 a. M. Furl'd topgallant sails and crossjacks.
 4 a. M. Reefed mainsail and upper topsails and furl'd the flying jib.

Day ends thick with strong breeze. Pumps and lights attended.
 8 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by N.	123.	24.	120.6	47°29'	no obs.	28° W.	1.77	20°51'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	2		N.	N. N. W.	$\frac{1}{2}$ pt.	At noon the wind died out nearly calm and pumped to N. N. W. Tacked ship. and made sail. Heavy N. W swell all day. During P. M. passed a number of racks of grain.
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	3					
11	3					
12	3					

9.30 a. M. sighted an abandoned and water logged ^{boat}. On getting along side she proved to be the Norwegian bark "Brage" of Drammen. All spars were standing but all sails unbent from the main and mizzen, also the foresail. Owing to the heavy sea we did not board her.

Day ends fair. Pumps and lights attended.

9 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 36° E.	51	30.	48.6	46°59'	46°59'	28° W.	61.	21°52'	

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towards

Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks
1	6		N.W.	N.	$\frac{1}{2}$ pt.	Fair weather and a moderate breeze all day.
2	6					
3	6					
4	6					
5	6					
6	6					
7	5					Setting ships, sail repairing etc.
8	6					
9	6					
10	6					
11	5			N.E.		
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5			N.		
10	5					
11	5					
12	5					

Pumps and lights attended

10 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 100 S.	130	21.	128.9	46° 38'	46° 38'	28° W.	188.	20° 00'	
North lat.									

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	3		N. by S.	N. N.W.	$\frac{1}{2}$	
2	3					
3	2					
4	2		N.			
5	2					
6	1				$\frac{1}{2}$ pt.	
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	1					
2	1					
3	1					
4	2			N.E.		
5	2					
6	2					
7	2			E.		
8	2					
9	2					
10	2			S.E.		
11	2					
12	2					

Pumps and lights attended

11 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S. N.	40.	28	27.8	46° 20'	46° 10'	32° W.	40	20° 40'	
North lat.									

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towards

Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1			N. N.W.	S.		
2						
3						
4				S.S.E.		
5						
6						
7						
8						
9						
10						
11				N.		
12				S.		
1						
2						
3						
4						
5						
6						
7				N.S.W.		
8				N. N.W.		
9						
10						
11						
12						

Rising gale during P.M. Shortened sail gradually until at midnight we were under main lower topsail main spencer and fore top mast staysail.

During A.M. had moderate gale with frequent heavy squalls of wind and rain. Passed a large number of new deals.

Day ends partly cloudy with increasing gale.

Pumps and lights attended

12 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by N.	93.	15	88.	46° 25'	46° 25'	33° W.	130.	27° 50'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	2 $\frac{1}{2}$		N. by S.	N. by S.	$\frac{1}{2}$ pt.	
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					
5	2					
6	3			S.S.W.	$3\frac{1}{2}$ pt.	
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					

Blowing a storm until midnight. Frequent terrific squalls. Heavy S.W. sea. Vessel rolling heavily. Wore ship at 1 P.M.

Moderated after midnight. At 4 A.M. set fore and mizzen lower topsails foremast and main top-mast staysail.

Day ends with fair weather and fresh gale. Pumps and lights attended.

13 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S. S. E.	42.	16	38.8	46° 09'	46° 09'	34° W.	56.	26° 24'	

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H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. N. W.	N.	1 1/2	Tues 18 day of Sept. 1883
2	4					1 P.M. set fore & main upper topsails whole, reefed mizzen, and flying jib. Reefed mainsail.
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					Midnight wore ship. Turned out reefs.
12	4		N. by E. N. S. W.	N. W.	1 point	14 Days out.
1	4					Fresh gale and squally weather during E. M.
2	5					Pumps and lights attended
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by S.	55	10	34.8	54.08	45.58	34° W.	77	28.11	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N. by S. 1/2 S.	N. W. 1/4 N.	1/2	Wed. 19 day of Sept. 1883
2	5					at one P.M. reefed fore and main upper topsails and furled flying jib and crossjack.
3	5					Heavy squalls during P.M.
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					Midnight. Fresh wind and clear weather. set whole topsails, flying jib and crossjack.
12	5					
1	7					Pumps and lights attended.
2	7					
3	7					
4	7					
5	7					
6	7					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					15 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S. W. by S.	138.	115.	76.7	44.03	44.03	34° W.	107	29.38	

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H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	4		N. S. W.	N. W.	1/2	Thurs 20 day of Sept. 1883
2	4					1 P.M. at fore and main top gallantsails. Wind moderating?
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	3					
10	3					
11	3					
12	2					Midnight. Light airs. 120 a.m. wind shifted to South. Set all sail.
1	2		N. by N.	S.	5	6 a.m. breezing up. Furlled all light sails.
2	3					Day ends partly cloudy with fresh S. W. breeze. Pumps and lights attended.
3	4					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					16 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	106.	62	85.8	43° 01'	43° 01'	34° W.	117.	31° 55'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	6		N. N. W.	S. W.	1/2	Friday 21 day of Sept. 1883
2	6					Gale rapidly increased during P.M. Shortened sail until at 11 P.M. we were under three lower topsails, main spencer and fore topmast staysail.
3	5					
4	5					
5	4		S. W. by S.	N. W.		4 P.M. Struck a back. Went on starboard tack.
6	4					8 P.M. wore ship to Northward.
7	4					Wind unsteady with very heavy squalls.
8	4					Midnight. Wore ship to the Southward. Furlled fore and mizzen lower topsails.
9	4		N. W. by N.			7 a.m. Squalls less violent. set fore and mizzen lower topsails.
10	3					Day ends partly cloudy with a strong gale.
11	3					Pumps and lights attended.
12	3					
1	2		S. S. W.	N. by N.		
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					17 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S.	17	17.	—	42° 44'	42° 44'	34° W.	—	31° 55'	

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H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks	day of	1883
1	3		N. W. by N.	N. S. W.	4 pts	Heavy westerly gale all day.	Sat 22	Sept 1883
2	3					Went ship to the Northward at noon		
3	3							
4	3							
5	3							
6	3							
7	3					7.30 P.M. wore to the Southward		
8	3							
9	3		S. W. by S.	S. W. by N.		7. A.M. wore to the Northward		
10	3							
11	3							
12	3							
1	3							
2	3							
3	3							
4	3					Day ends partly cloudy with heavy westerly gale and a great sea. Ship rolling heavily.		
5	3							
6	3							
7	3							
8	3							
9	3					Pumps and lights attended		
10	3							
11	3							
12	3					18 Days out.		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 2° W.	24	23.	4	43° 07'	43° 07'	32° W.	5	32° 00'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	1883
1	3		N. W. by N.	N.	1 1/2	Gale died down to a light breeze during P.M. made sail.	Mon. 24	Sept. 1883
2	3							
3	3							
4	3							
5	3				1/2			
6	3							
7	3							
8	3							
9	3							
10	3							
11	3							
12	3							
1	3							
2	3					Moderate light airs and fair weather during latter part.		
3	3							
4	3							
5	3		S. W.	N. W. by N.		Pumps and lights attended.		
6	3							
7	3							
8	3							
9	2							
10	2							
11	2							
12	2							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 2° S.	27.	4	46.	42° 32'	42° 32'	30° W.	34.	34° 10'	

North to lat.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	1883
1	3		N. W. by N.	N.	4 pts	Heavy gale with frequent violent squalls all day. Ship laboring and rolling heavily.	Sun 23	Sept. 1883
2	3							
3	3							
4	3							
5	3		S. W. by S.	N. W. by N.				
6	3							
7	3					4 P.M. wore ship to the Southward.		
8	3							
9	3							
10	3							
11	3							
12	3							
1	2					Moderating during latter part. Pumps and lights attended.		
2	3							
3	3							
4	3							
5	3							
6	3							
7	3							
8	3							
9	3							
10	3							
11	3							
12	3							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. S. E.	42.	33.	16	42° 30'	42° 30'	30° W.	20	31° 40'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	1883
1	2		N.			Light variable airs during A.M.	Tues 25	Sept. 1883
2	2							
3	2							
4	2							
5	2							
6	2							
7	2							
8	2							
9	2							
10	2							
11	3							
12	4							
1	6							
2	8							
3	8							
4	8							
5	8							
6	8							
7	8							
8	8							
9	8							
10	8							
11	8							
12	8							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S. W. by W. 1/4 W.	121.	62.	103.8	41° 30'	41° 30'	29° W.	140.	34° 30'	

21 Days at sea.

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towards

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Dandy Hook.

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Lizardpool

Dandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks
1	7		N.	N. N. W.	1/4	Moderate wind and fair weather during P.M.
2	7					Light airs through a. M.
3	7					Pumps and lights attended.
4	7					
5	7					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	5			N. E.		
2	5			E.		
3	3					
4	3					
5	3					
6	2					
7	2					
8	2					
9	2					
10	2			S. E.		22 Days out.
11	2					
12	2			S.		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 41° S.	112.	74.	84.2	40° 16'	40° 16'	28° W.	112.	36.22	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	7		N. N. W.			Good breeze and clear weather the first part of the day.
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					
1	5					
2	4					Light airs and hazy weather the latter part.
3	4					Pumps and lights attended
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					24 Days out.
11	2					
12	2					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 34° W.	116	17.	114.7	41° 17'	41° 17'	26.	124.	41.44	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N. N. by N.	O. N. by N.		Through P. M. had a moderate breeze and fine clear weather.
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	8					
2	8		N. N. W.			
3	8					
4	8					
5	8					
6	8					
7	8					
8	8					
9	8					
10	8					
11	8					
12	8					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. by 1/2° W.	156.	44.	149.3	41° 00'	41° 00'	28° W.	178.	37.40	

North lat.

west.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	3		N. N. W.	S. S. W.		Light variable wind and hazy weather.
2	3			S.		Heavy rains from four to eight a. M.
3	4					
4	4					
5	5					
6	5			S. E.		
7	5					
8	5					
9	5			S. N. E.		Clouds partly cloudy with light wind. Pumps and lights attended.
10	5					
11	5					
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	4			E.		
10	4					
11	4					
12	4					

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 20° S.	116.	37.	103.4	40° 40'	40° 40'	26° W.	130.	43.54	

25 Days out.

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Liverpool

Sandy Hook.
Sun 30 day of Sept 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	2		N. by E.			Light variable airs and partly cloudy weather all day.
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					
5	2					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					

E. N. E.

Pumps and lights attended.

26 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.	53.7	1	5.4.3	40° 39'	40° 39'	26° W.	72.	45° 11'	West lon.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N. by E.	E. N. E.		Easterly winds and cloudy weather. All sail set.
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

S. E.

27 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 14° S.	132.	3.2	128.1	40° 07'	40° 07'	25° W.	170.	48° 01'	

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Sandy Hook.
Tues 1 day of Oct. 1883

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	8		N. by E.	S. E.		Strong S. E. wind during P.M. Hauled all light sails at 3 P.M.
2	8					6 P.M. hauled top gallant sails and fore and mizzen upper topsails. Creeping up fast.
3	8					6.30 wind backed quickly around to N. W. Put her under storm sails and went on to the Port tack. 6 A.M. More mod. work ship, and made sail.
4	8					At noon had moderate N. W. wind and, partly cloudy weather. Pumps and lights attended.
5	8					
6	8					
7	8					
8	8					
9	7		S. S. W.	N. E.		
10	4			N. W.		
11	2 1/2					
12	2 1/2		N.	N. N. W.		
1	2 1/2					
2	2 1/2					
3	2 1/2					
4	2 1/2					
5	2 1/2					
6	3					
7	3		N. S. W.	N. W.		
8	3					
9	2 1/2					
10	2 1/2					
11	2 1/2					
12	0					

28 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 21° S.	92.	3.3	85.	39° 28'	39° 28'	24° W.	111	49° 52'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N. S. W.	N. W.		Moderate wind all day. Hauled clear around the compass. Fair weather.
2	6		N.	N. N. W.		
3	6					
4	6		N. N. W.	N.		
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

29 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 40° S.	143.	9	143.2	39° 17'	39° 17'	22° W.	183	52° 55'	

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Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	7		N. by W.	S. W. by W.			Thurs 4	October 1883
2	7					Fine weather and good breeze during P.M.		
3	7							
4	7							
5	7					9 P.M. Heavy swell set in from N.N.W. furled all the light sails		
6	7							
7	8							
8	8							
9	8							
10	6					Midnight furled topgallant sails and courses.		
11	6					4 A.M. reefed topsails and foresail. Heavy rain during latter part. 9 A.M. wind jumped to N.N.W. warship and made sail.		
12	6					4 P.M. Pumps and lights attended		
1	5							
2	5		N. W.	N. S. W.	1 pt.			
3	5							
4	5							
5	2							
6	2							
7	2							
8	2							
9	2							
10	2		N.	N. N. W.		30 Days out.		
11	2							
12	2							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 35° W.	120.	68.	99.6	40° 25'	40° 25'	20° W.	130.	53.05'	
				North Lat.				West Lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	3		S. N. by W.	S. W. by W.	2	Wind moderated during P.M. made sail.	Friday	October 1883
2	3					At midnight the wind shifted suddenly to S. W. in a squall.		
3	3							
4	3							
5	3					At four A.M. jumped to N. N. W. in a squall.		
6	3							
7	3							
8	2							
9	2							
10	3							
11	3							
12	3							
1	7		N. W. by N.	S. W. by N.				
2	7							
3	7					Alternate squalls and sun-spine during A.M.		
4	7					fresh breeze.		
5	7		S. W.	N. N. W.		Pumps and lights attended.		
6	7							
7	7							
8	7							
9	7							
10	7							
11	7							
12	7					31 Days out.		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S. 28° W.	119.	105.	50.5	38° 40'	38° 40'	20° W.	65.	56.10'	

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Liverpool.

Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	7		N. by N.	N. W. by N.	1/2		Sat. 6	October 1883
2	7					Fresh breeze and squally weather during P.M. furled mainsail and reefed upper topsails.		
3	7							
4	7							
5	6							
6	6							
7	6							
8	5							
9	4				1/4			
10	4							
11	4							
12	4							
1	4							
2	4							
3	4					8 A.M. set reefed mainsail. Day ends partly cloudy with strong breeze. Pumps attended		
4	4							
5	4							
6	4							
7	4							
8	4							
9	4					32 Days out.		
10	5							
11	5							
12	5							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 30° S.	118	59.	102.4	39° 41'	39° 41'	20° W.	130.	58.20'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1	5		N. by N.	N. N. W.	1/2		Sun 7	Oct. 1883
2	5					Wind gradually moderated during P.M. made sail as needed.		
3	5							
4	5							
5	5					Day ends clear with a light northerly wind		
6	5					Pumps and lights attended		
7	5							
8	5							
9	5							
10	5							
11	5							
12	5							
1	5							
2	5							
3	5							
4	5							
5	5							
6	5							
7	4							
8	4							
9	4							
10	4							
11	4							
12	4					33 Days out.		

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 40° S.	114	7.	113.7	37° 34'	37° 34'	16° W.	144.	60° 44'	
				North Lat.				West Lon.	

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Liverpool

towards

Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	5		N. 4. W.	N.		Mon 8 day of October 1883
2	5					
3	5					
4	5			N. E.		
5	5					
6	5					
7	5					
8	6					
9	6					
10	6					
11	6					
12	8					
1	9					
2	9					
3	9					
4	9					
5	9					
6	9					
7	9					
8	10					
9	10					
10	10					
11	10					
12	10					

34 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 30° W.	180.	9.	179.7	37° 43'	37° 43'	12° W.	228.	64° 32'	
				North Lat.				West. Lon.	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	11		N. 4. W.	N. E.		Tues 9. day of October 1883
2	11					
3	11					
4	11					
5	11					
6	12					
7	12					
8	12					
9	12					
10	12					
11	12					
12	12					
1	12					
2	12					
3	12					
4	11					
5	11					
6	11					
7	11					
8	11					
9	11					
10	11					
11	11					
12	11					

Fresh N. E. gale and clear weather during P. M.
5 P. M. set upper topsails whole.

Letter part cloudy and more moderate. 5 P. M. set fore and main top gallant sails and flying jib.

Pumps and lights attended

35 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N. 28° W.	275.	130.	243.	39° 33'	39° 53'	8° W.	313.	69° 45'	

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towards

Sandy Hook.

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1	7		N.	N. E.		Wed 10 day of Oct. 1883
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					
1	6					
2	6					
3	6					
4	5					
5	5					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Wind gradually moderated during P. M.

Thick and foggy during a. m. under heavy sail.

125 fathoms water at 6 a. m.

47 fathoms at 10 a. m.

Day ends thick. Pumps and lights attended.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N.	136.	—	136	39° 53'	—	8° W.	175.	72° 40'	

H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks
1						Thurs 11 day of Oct. 1883
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

At noon hove main and cross jack yards aback and set top upper topsails. Thick fog and light wind.

At midnight went on to the Port tack under three lower topsails, and stood until four a. m. when we wore ship to the Northward. 7 a. m. set upper topsails for sail and gills. 1 P. M. tugboat Protector came alongside and took our hawser. 8 P. M. Pilot came on board. 11 P. M. set 90 starboard anchor and veered out 30 fms again with Scotland light ship bearing N. W. 1 1/2 miles. Very thick fog. Day contains 36 hours.

37 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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H.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS.	LEEWAY,	Remarks	day of	187
1						Friday Oct 12.		
2						Light N. E. wind and		
3						thick fog. at 6.30 a.m. hove		
4						up anchor and towed into		
5						Key Lock. Let go starboard		
6						anchor and 30 fathoms chain		
7						abreast "Red Hook" at 11.20		
8						a.m. Got orders for Philadelphia		
9						but was unable to proceed on		
10						acc of fog.		
11						Light air from N. E. to S. E.		
12						Very thick fog all day.		
1						Saturday Oct 13.		
2						Light air from N. E. to S. E.		
3						Very thick fog all day.		
4						Sunday Oct 14.		
5						Moderate S. W. wind during		
6						a.m. Clearing weather. 7 a.m.		
7						hove up anchor took tow boat		
8						Protector and started for		
9						Philadelphia. At close of day		
10						(midnight) Barnegat Light		
11						bore N. N. W. 10 miles distant		
12								

[illegible]

11.	K.	$\frac{1}{2}$ K.	COURSES,	WINDS,	LEEWAY,	Remarks	day of	187
1						Mon Oct. 15.	5 A.M. got Pilot. 10 A.M.	
2						Passed Delaware Breakwater.		
3						3 P.M. passed Brandywine		
4						Light		
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
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K. $\frac{1}{2}$ K. COUNEX WIND 1-5
51
24

$$\begin{array}{r} 558 \\ 5032 \end{array}$$

$$\begin{array}{r} 57"21 \\ 45"41 \\ 66"36 \\ 2 \overline{) 147"58} \\ 73"49 \\ 57"21 \\ 56"28 \end{array}$$

$$\begin{array}{r} 3 \quad 7 \\ 0"140761 \\ 0"057275 \\ 9"445155- \\ 9"774046 \\ 9"597251- \end{array}$$

$$\begin{array}{r} 89 \text{ } 48 \\ 78 \text{ } 00 \\ \hline 19 \text{ } 48 \\ 28 \text{ } 24 \\ \hline 48 \text{ } 72 \end{array}$$

1-44
85-
2720
435-2
947240

$$\begin{array}{r} 5'' \ 5-9 \quad 5-0 \\ \\ \\ \hline 5'' \ 0-0 \quad 2-9 \\ \\ \\ \hline 5'' \ 4-5 \quad 2-5 \\ \\ \\ \hline 5'' \ 4-4 \quad 4-6 \end{array}$$

4 | 5.24
151" 14" 00
25.21.21
49
37.06

$$\begin{array}{r} 25 \ 25 \ 19 \\ 57 \\ \hline 2596 \end{array}$$

27 243
35025

441
88-
2201-
55221-
6137481-

1 42" 36
 1 45" 13
 2 5" 25" 43
 1 42" 5-1
 46 28
 56" 23
 12" 10" 00
 12" 56" 18 23
 6564
 12" 9 4

All-
 53 24
 53 17
 2 66" 41
 53 20
 53 70
 53" 50

5 58
 1294
 15 5-2
 50 2
 67 6
 5 58
 4 5.6 5 7 2

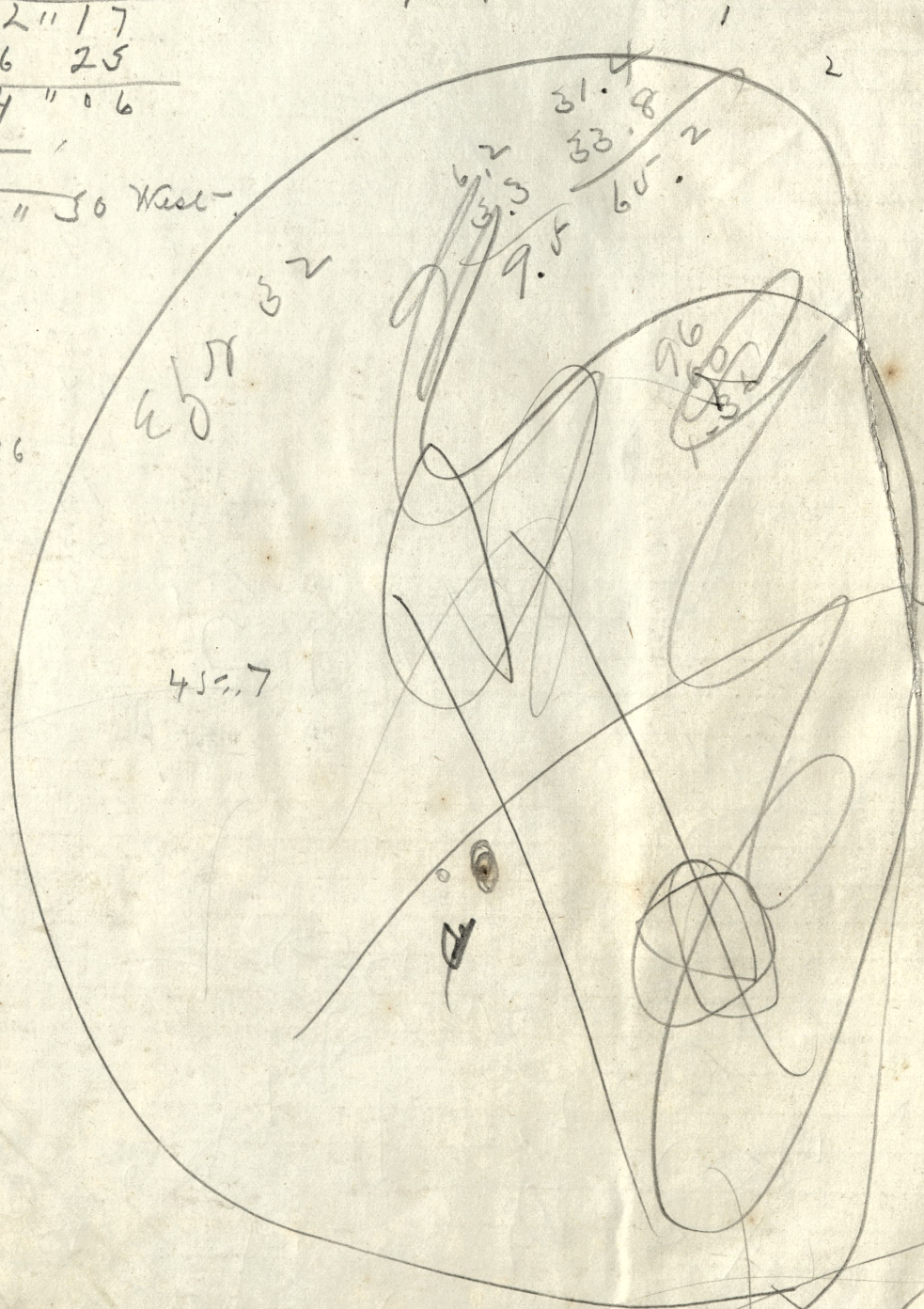
23 24 5-3
 43
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 66" 54" 24

Jul 9
 985.36
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 47.57

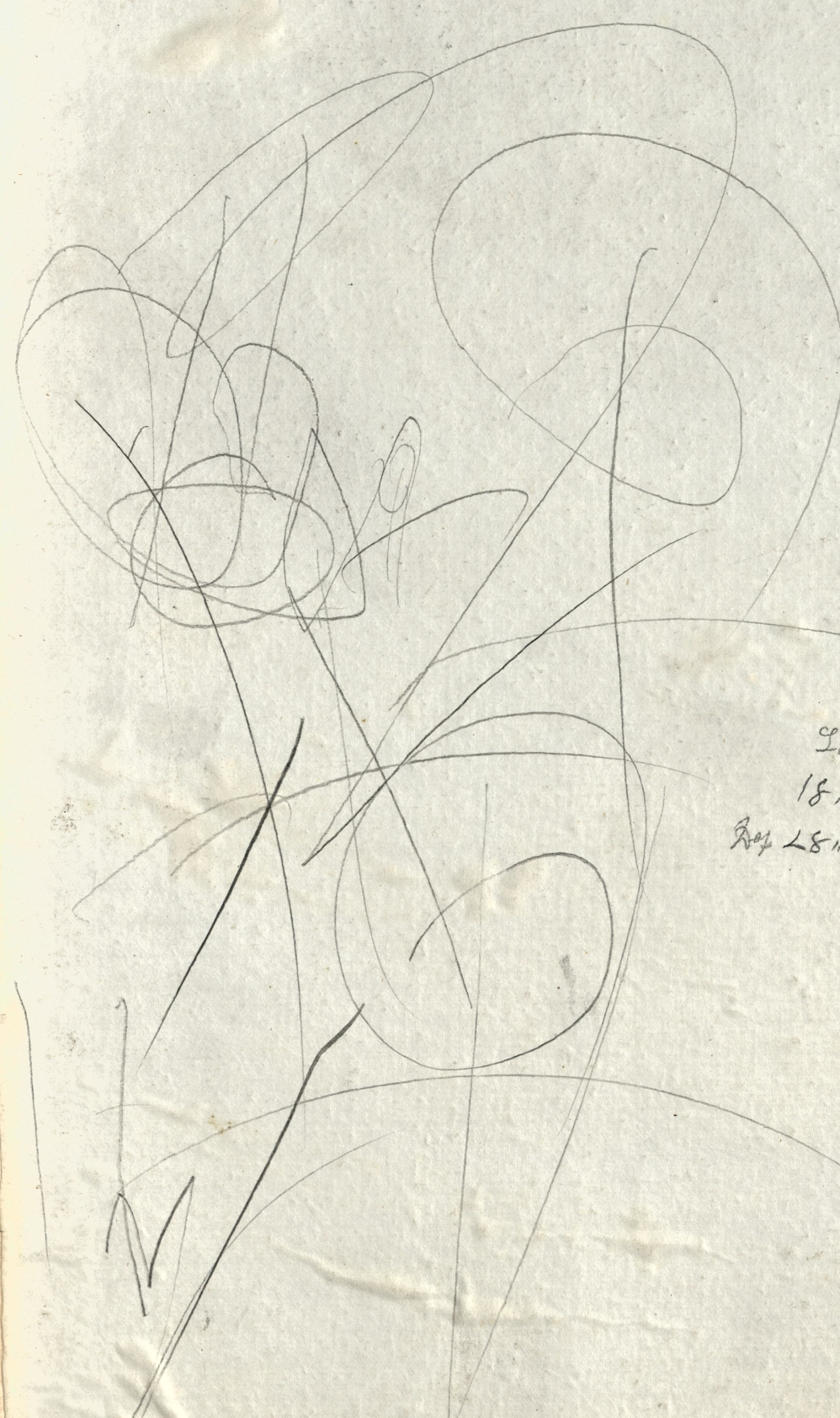
60
 25-
 65-
 60
 45
 105

53" 50
 46" 22
 66" 34
 2 146" 26
 73" 13
 33" 30
 29" 43
 6" 16 11 25-
 6" 05 73 8 3
 9" 46 05 27
 9" 80 5-4 95-
 9" 46 45 30

4" 28" 25-
 5-2
 4" 22" 17
 12 5-6 25
 8" 54" 06
 4 (51) 4
 12 8" 31" 50 West-



99
 65-
 34



Jul-
 18.9
 28.3

